



United States Environmental Protection Agency  
Region 10 Emergency Response Unit  
**POLLUTION REPORT**

**I. HEADING**

Date: August 21, 2000  
Subject: CleanCare Removal Site (CleanCare), Tacoma, Washington  
From: Michael Szerlog, OSC, USEPA, Region 10, Emergency Response Unit  
Tel: Office (206) 553-0279  
TO: See Distribution List on last page

**POLREP No. 36 (Progress)**

**II. BACKGROUND**

Site ID: SSID # 106W  
Delivery Order No: 081-10 -02  
Response Authority: CERCLA,  
CERCLIS No: WASFN1002182  
NPL Status: Not Listed (former RCRA site within  
Commencement Bay Superfund site)  
State Notification: Washington State Department of Ecology referred  
site to EPA  
Action Memo Status: Signed on December 17, 1999 and January 7, 2000  
Removal Start Date: December 17, 1999  
Expected Completion Date: March 17, 2001  
Site Web Page: [www.epa.gov/r10earth](http://www.epa.gov/r10earth), click Index, click C for  
CleanCare. or use URL:  
[http://yosemite.epa.gov/r10/cleanup.nsf/  
sites/CleanCare](http://yosemite.epa.gov/r10/cleanup.nsf/sites/CleanCare)

**III. SITE INFORMATION**

**A. Incident Category**

This is a time-critical removal action at an inactive waste management facility.

**B. Site Description**

## **1. Site Location**

The CleanCare site is located at 1510 Taylor Way in Pierce County, City of Tacoma, Washington at Township 21, Range 3 E. in Section 26. The site comprises approximately 4.2 acres latitude 47° 16' 25" North and longitude 122° 23' 32" West. The site is located in the "Tacoma Tideflats" area about three miles northeast of downtown Tacoma. The site is owned by David Bromley of Bromley-Marr ECOS Inc.

The CleanCare site was an interim status treatment, storage, disposal, and recycling (TSD) facility for off-site generated hazardous and non-hazardous wastes - one of a handful of commercial TSDs operating in the state of Washington. When the facility was in operation its major function was to solidify oily sludge wastes originating from catch basins, sumps, and storm drains; recycle waste oils, antifreeze, and spent solvents; and crush used oil filters for off-site recycling by other facilities.

The CleanCare facility has four separate tank farms (Tank Farm (TF)-1, TF-2, TF-3, and TF-4), two hazardous/dangerous waste container storage pads (container storage (CS) CS-4A and CS-4B), and a processing area where the distillation of solvent, oil, and antifreeze used to occur.

## **IV. Response Information**

### **A. Situation**

#### **1. Current Situation**

##### August 14, 2000 (Monday)

Personnel on site: 1 START, 4 ERRS, 1 EPA

Weather: Cloudy in the morning Clearing in afternoon, high of 70 F.

All site personnel attended daily safety meeting and discussed site safety/planned activities. START prepared polrep and conducted oversight. ERRS solidified approximately 30 yards of sludge, shipped oily pallets for incineration, decontaminated solidification pit, cleaned miscellaneous oil stains and debris, and shipped 20 cubic yards of oily sludge.

##### August 15, 2000 (Tuesday)

Personnel on site: 1 START, 6 ERRS

Weather: Overcast in AM, partly cloudy in the afternoon, 70 -75 F

All site personnel attended daily safety meeting and discussed site safety/planned activities. START worked on water management plan

and continued oversight. ERRS transferred sludge to solidification bin, decontaminated solidification area, cleaned miscellaneous areas, cleaned sumps, swept all paved areas, and shipped 60 cubic yards of solidified sludge.

#### August 16, 2000 (Wednesday)

Personnel on site: 1 START, 6 ERRS

Weather: overcast in the morning then clear in the afternoon, 70 F

All site personnel attended daily safety meeting and discussed site safety/planned activities. START marked all containment walls to be breeched on site, continued to work on surface water management plan, and continued oversight activities. ERRS shipped 60 cubic yards of oily debris for disposal, shipped 20 cubic yards of RCRA waste sludge for disposal, prepared vac truck for demobilization, complete final street sweep of paved areas, and decontaminated miscellaneous areas on site.

#### August 17, 2000 (Thursday)

Personnel on site: 2 START, 6 ERRS, 1 EPA

Weather: cloudy in AM, clear in PM, high of 70 F

All site personnel attended daily safety meeting and discussed site safety/planned activities. EPA, START, and ERRS conduct site closing meeting, including review of positive and negative aspects of removal action and discussed remaining activities to be completed. START delivered polrep 35, completed pump selection and piping schedule for surface water management system and conducted general oversight. ERRS shipped: 2,000 gallons of PCB; 3,200 gallons of oily/water; 3 drums of sodium nitrate; 3 drums of flammable solids; 1 drum ferric chloride; and one drum of propylene glycol for disposal. In addition, ERRS prepared for demobilization and decontaminated various areas on site.

#### August 18, 2000 (Friday)

Personnel on site: 1 START, 5 ERRS,

Weather: cloudy skies with rain, temps in the 60's

All site personnel attended daily safety meeting and discussed site safety/planned activities. START conducted general oversight and demobilized equipment from site. ERRS shipped 20 cubic yards of crushed drums from site, transferred rain water for on site storage, and demobilized from site. In addition, two hot asphalt trailers were removed from site to be scrapped. The trailers were deemed to have no value and all interested parties released property rights. They were removed to facilitate any further cleanup actions that may occur on site.

## **2. Removal Actions to Date**

On January 7, 2000, the Action Memorandum to increase site ceiling, to ask for a \$2 million exemption, a 12-month exemption, and a change of scope was signed. A purchase request was also signed and ERRS was funded, incrementally, to begin removal activities.

The City (City of Tacoma Public Works) and State (Washington State Department of Ecology) are providing assistance with the establishment of an interim storm water management plan. For free the City of Tacoma is providing a crew and camera to inspect the underground piping on site.

RCRA Drums: Finished segregation and inventory of all non oil filter drums known to be located on the site (formerly referred to as RCRA drums). Selected generators have removed a total of 570 drums and 12 totes of waste. All drummed waste has been removed from site.

Oil Sludge Drums: Sludges from miscellaneous drums have been bulked and solidified on site and then transferred by Waste Management to Arlington Landfill.

Antifreeze Drums: Bulked with material from Tank 25 and transported from site by Ecco to Kennewick for recycling.

Solvent Drums: All solvent drums have been disposed of under contract with Safety Kleen.

RCRA Debris: Drums and debris have disposed off site.

Baker Tanks® -All Baker Tanks have been removed from site. Baker Tanks had been used to stock bulked materials, store treatment system waters, and store material from tank farms prior to disposal.

Surface Water - Treated and discharged 22 batches to date (approximately 440,000 gallons total) of waste water to the City of Tacoma Sanitary Sewer System. Two batches (approximately 40,000 gallons) did not meet the pretreatment requirements established by the city and were disposed off site. The temporary system has been dismantled, any water developed on site will be disposed off site. Currently, a surface water management plan is under development for the period after demobilization from site.

ASTs -All tanks in TF1 (T1, T3, T4, T5) have been demolished and the scrap steel trucked to Schnitzer Steel under subcontract to the ERRS. All tanks in Tank Farms 2 & 3 are empty of fluids, having been removed and

transported by Emerald Services, Solpro, Prime Environmental, Chemical Waste Management (specifics tabulated in section VI). Tank sludges have been solidified and subsequently transported by Chemical Waste Management to Arlington landfill for final disposition. Tank Farm 3 material was transported by Emerald (oily water) and Prime (dry oil). Tank Farm 4 material has been hauled by Onyx for disposal in Utah.

Soil - Soil treatment/disposal options have been reviewed. Fourteen soil samples were collected during the assessment phase to characterize site soils. One hundred soil samples have been collected from three areas on site (Area 1 - within the secondary containment of Tank Farm 1, Area 2 - south of Building 1, and Area 3 - South of Tank Farm 2). Field screening for Diesel range Total Petroleum Hydrocarbons (TPHD) was performed on these samples. A total of 15 samples have been submitted for laboratory analysis: five samples for full suite analysis, and ten for TPHD analysis.

### **3. Enforcement**

The Region currently has some information regarding potential responsible parties (PRPs) at the site. Relevant facility files and documentation have been transported to a secured federal building. EPA intends to gather additional PRP information during the removal action.

#### **B. Planned Removal Activities**

To minimize/eliminate the threat to human health and the environment posed by the wastes on the site, the following removal activities are planned:

Surface Water: Awaiting bid responses for construction of asphaltic cap. Construction will begin as soon as contractor can mobilize to site. A surface water management plan will be implemented including the construction of an above ground water transfer system.

ASTs: Inspect ASTs and perform final cleaning activities as needed.

Miscellaneous Debris: A final inspection of site will be conducted miscellaneous debris will be disposed of as needed.

#### **C. Next Steps**

Develop and implement of a temporary surface water management system for the site. Continued data management including data for soil screening samples and laboratory samples. Receive, interpret and report laboratory data for subsurface soil samples. Prepare for the construction of a cap and implement a surface water management plan.

#### **D. Key Issues**

Security: Off Duty City of Tacoma Police continue with site security. Security will remain until all wastes have been removed from the site.

Management of site surface water: Contact surface water (that which falls within the secondary containment structures) and non-contact water has been either treated on site or disposed off site. The temporary water treatment system has been dismantled and any surface water that collects on site will be disposed offsite until a surface water management system is implemented. The system will include the construction of an asphaltic cap over three areas onsite and the construction of an above-ground water transfer system. Surface water will be disposed to the city storm water line located at the south end of the property.

Drum Container Waste: All 64 of the original generators that were given the opportunity to dispose of their wastes have done so. A total of 582 containers of waste were removed from the site by these generators, saving the EPA disposal costs. Other containers of waste are haz-catted, staged with similar compatible wastes, bulked and disposed as appropriate. All drummed waste has been removed from site.

On-site facility files: Approximately eight hundred boxes of facility files and documents were transported to a secured federal facility.

## I. Cost Information

Estimated costs are summarized below:

	Established Ceiling	Estimated Costs as of date listed, percent of budget expended
EPA	\$ 300,000	\$ 202,200 (8/18) 67.4%
START	\$ 676,500	\$ 570,366 (8/18) 84.3%
ERRS*	\$ 3,250,000	\$ 3,053,954 (8/20) 94.0%
Coast Guard	\$ 100,000	\$ 123,800 (8/18) 123.8%
Total	\$ 4,326,500	\$ 3,950,320 (8/18) 91.3%

Note: The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

\* reflects ceiling increase of \$250,000 for the ERRS contractor.

Waste Stream	Medium	Quantity	Containment-Migration Control	Treatment	Disposal
Used Oil Filters	solid and solidified waste	270 cu yd	placed liners in reliefs	removed oil filters from 55 gallon drums and consolidated in reliefs	Waste Management delivered to Olympic View Sanitary Landfill
Used Oil Filter Drums	solid waste	170 cu yd	placed liners in reliefs	crushed drums with an excavator to reduce volume	Phillips Services Corp. Delivered to Birmingham Steel for recycling.
Used RCRA Drums	solid waste	244 cu yd	placed liners in reliefs	crushed drums with an excavator to reduce volume	Phillips Services Corp. Delivered to Columbia Ridge Landfill.
	Solid waste	1050 Drums	placed liners in reliefs	Hauled from site to be decontaminated	Emerald transferred from site to be decontaminated and reused
Generator Drums	sludge and liquids	570 drums and 12 totes	NA	generators contracted with TSDs to properly manage their waste	Brought to various disposal companies
Oily Debris	solidified waste	100 cu yd	placed liners in reliefs	consolidated in reliefs	Phillips Services Corp. delivered to Olympic View Sanitary Landfill
Contact Rain Water	liquid	349,708 gal	contained in Baker Tanks®	Emerald Petroleum Services's (EPS) water treatment plant	EPS treated and transported to City of Seattle Sanitary Sewer
Contact Rain Water	liquid	123,400 gal	contained in Baker Tanks®	Phillips Services Corp. water treatment plant	Phillips Services Corp. treated and transported to City of Tacoma Sanitary Sewer
Contact Rain Water	liquid	440,000 gal	contained in Baker Tanks®	treated on site with temporary waste water treatment system	to City of Tacoma Sanitary Sewer
Baker Tanks®	solid	33 Tanks	NA	pressure washed, and wiped down	returned to Vendor (Baker Tanks®, Inc.)
Tip Trailers	solid	13 trailers	NA	transported off site to make room for other activities	temporarily stored at the Phillips Services Corp. facility adjacent to the site



Waste Stream	Medium	Quantity	Containment-Migration Control	Treatment	Disposal
Oil From Drums	liquid	142 drums + 4 totes	6,900 gallon poly tank on site	Transported off site for disposal	Removed by Emerald Petroleum with material from Tank 1
Antifreeze from Drums	liquid	65 drums	Bulked into Baker Tank® # 18	transported by Spencer	Delivered to Onyx for recycling
Tank Farm 1 Oily Water	liquid	21,100 gal	Bulked into Baker Tank® #10	transportation to be determined	to be determined
Solidified oil sludge	solid	654,000 lbs	in sludge pits	Transported from site	Waste Management transported to Arlington landfill
Tank 1 Layer 1	liquid	73,225 gal	Transferred to Vac Truck	transported by EPS	Delivered to EPS for recycling
Pallets	solid	36 tons	stacked in back lot	Transported from site	Burned off site by Recovery One
Tank 1 Layer 2	liquid	34,437 gal	Transferred to Vac Truck	transported by Phillips Services Corp.	Delivered to Phillips Services Corp for recycling
Tank 1 Layer 3	liquid	168,269 gal	Transferred to Vac Truck (74,169 gal) Transferred to Baker Tank® for temporary storage (20,000)	transported by Waste Management	Delivered to Waste Management facility in Arlington, OR for solidification and disposal
Tank 1 Layer 4	liquid	155,904 gal	Transferred to Vac Truck	transported by Emerald	Delivered to Emerald facility in Seattle for recycling
A-Fuel/Solvent from Drums	liquid	24,000 gal	Bulked into Baker Tank® #9	10,000 gallons transported off site by Safety Kleen	Delivered to Araganite facility in Utah for recycling
Glycol From Drums	liquid	5,000 gal	Bulked into Baker Tank® #18	transportation to be determined	to be determined
PRM Drums	Solid Waste	80 55-gallon drums	Transferred to Phillips	Transferred by Phillips Services Corp.	Delivered to Phillips Services Corp for recycling
Tank-30 Wastewater	liquid	10,371 gal	Transferred to Vac Truck	Transferred by Emerald	Delivered to Emerald for treatment
Tank 5	liquid	44,165 gal	Transferred to Vac Truck	Transferred by Solpro/Prime	Delivered to Solpro/Prime for disposal

Tank 4	liquid	105,074 gal	Transferred to Vac Truck	Transferred by Solpro	Delivered to Solpro for disposal
Tank 5	oily water	24,500 gal	Transferred to Vac Truck	Transferred by Prime	Delivered to Prime for disposal
Tank Farm 2	liquid	62,724	Transferred to Vac Truck	Transferred by Emerald	Delivered to Emerald for disposal
Tank Farm 2	oily water	48,239 gal	Transferred to Vac Truck	Transferred by Emerald	Delivered to Emerald for disposal
Tank 21	Liquid Diesel	4,150 gal	Transferred to Vac Truck	Transferred by Safety Clean	Transported to Anacortes for recycling
Tank Farm 2	liquid	62,724	Transferred to Vac Truck	Transferred by Emerald	Delivered to Emerald for disposal
Tank Farm 2	oily water	48,239 gal	Transferred to Vac Truck	Transferred by Emerald	Delivered to Emerald for disposal
Tank 3	Liquid	112,705 gal	Transferred to Vac Truck	Transferred by Solpro	Delivered to Solpro for disposal
Tank 21	Liquid Diesel	4,150 gal	Transferred to Vac Truck	Transferred by Safety Clean	Transported to Anacortes for recycling
Vendor Drum	Product Drums	8 55-gallon drums	Transferred to VanWaters & Rodgers	Transferred by VanWaters and Rodgers	Transported for resale or use
Tank 5 Layer 2	liquid	9,789 gal	Transferred to Vac Truck	Transported by Emerald	Delivered to Emerald for recycling
Tank 25	Liquid Glycol	8,000 gal	Transferred to Vac Truck	Transported by Ecco	Delivered to Kennewick for recycling
Tank Farm 3 Tank 18	Oil/Water	22,500 gal	Transferred to Vac Truck	Transported by Prime	Delivered to Prime for disposal
Tank Farm 3 Tank 19	Oil/Water	22,500 gal	Transferred to Vac Truck	Transported by Prime	Delivered to Prime for disposal
Tank Farm 4 Tank	Solvent Waste	10,700 gal	Transferred to Vac Truck	Transported by Onyx	Delivered to Utah for disposal
20 yard sludge boxes	solidified sludge	38,000 pounds	loaded onto truck	Transported by Waste Management	Delivered to Waste Management
Oxidizer Drums	liquid	42 55-gallon drums	Transferred to PSC	Transferred by PSC	Delivered to Kent
Tank Farm 3 Tank 22	Oil/Water	34,326 gallons	Transferred to Vac Truck	Transported by Emerald	Delivered to EPS for disposal

Tank Farm 3 Tank 22	waste oil	8,928 gallons	Transferred to Vac Truck	Transported by Emerald	Delivered to Sol- Pro for disposal
Turbo Oil	Liquid	1,441 gallons	Transferred to Vac Truck	Transported by Emerald	Delivered to Emerald for recycling
Black Poly Tank	Solid	1 Tank	loaded onto truck	Transported b y Baker Tank	Returned to Baker Tank
CleanCare Tanker Truck	Solid	2 Trucks	Drove Off Site	Transported by Emerald	Delivery to Emerald for Reuse
CleanCare Package Truck	Solid	4 Trucks	Loaded onto lowboy trailer	Transported by Emerald	Delivery to Emerald for reuse
Oily Water From Baker Tanks	Liquid	69,703 gallons	Transferred to Vac Truck	Transported by Emerald	Delivery to Emerald for Disposal
Tank Farm 4 A- Fuels	Liquid	16,590 gallons	Transferred to Vac Truck	Transported by Prime Environmental	Delivery to Continental Kiln in Hannibel MO.
Consolidated Sludge	Solidified Sludge	240 Yards	loaded onto truck	Transported by Waste Management	Delivered to Waste Management for disposal
Hydrochloric Acid	Liquid	3 55-gallon drums	loaded onto truck	Transported by Sol Pro	Delivered to facility in Chicago IL
Lab Pack Oxidizers	Liquid	4 drums	loaded onto truck	Transported by Onyx	Delivered to Onyx for disposal
Lab Pack water reactives	Liquid	1 drum	loaded onto truck	Transported by Onyx	Delivered to Onyx for disposal In Henderson, CO
Lab Pack Sodium Nitrites	Liquid	1 drum	loaded onto truck	Transported by Onyx	Delivered to Onyx for disposal In Henderson, CO
Waste Antifreeze	Liquid	2,690 gallons	Transferred to Vac Truck	Transported by PSC	Delivered to PSC for Disposal
Oily Debris	Solid	120 cubic yards	loaded onto truck	Transported by Waste Management	Delivered to Waste Management for disposal
Oily Water	Liquid	15,200 gallons	Transferred to vac truck	Transported by PSC	Delivered to PSC Georgetown facility for disposal
Waste Drums	Solid	3 drums of flammable solids	Loaded onto truck	Transported by PSC	Delivered to PSC Kent facility for disposal

Waste Drums	Liquid	13 aluminum Hydroxide, 16 Sodium Hydroxide, 1 ferric Chloride, 1 propylene glycol, 3 sodium nitrate	Loaded onto Truck	Transported by PSC	Delivered to PSC Georgetown facility for disposal
Waste PCB Oil	Liquid	2000 gallons	Transferred to Vac Truck	Transported by Aragonit	Delivered to Aragonit for disposal
Waste Drums	Solid	Flammable Solids and Dry Cell Batteries	Loaded onto Truck	Transported by PSC	Delivered to PSC Georgetown facility for disposal
Oily/Glycol	liquid	20,000 gallons	Transferred to Vac Truck	Transported by Emerald	Delivered to Emerald for disposal
Solvent Paint Sludge from TF#4	Sludge	4,044 gallons	Transferred to Vac Truck	Transported by Prime	Delivery to Continental Kiln in Hannibal MO.
Paint Waste	Liquid/sludge	59 drums	loaded onto truck	Transported by Prime	Delivered to Pollution Control Industries for disposal
RCRA Sludge	Sludge	20 cubic yards	loaded onto truck	Transported by PSC	Delivered for disposal at Kent facility
Oily Water	Liquid	50,024 gallons	Transferred to Vac Truck	Transported by Phillips	Delivered for disposal at Kent facility
Acids and Lab Packs	Liquid	64 drums	loaded onto truck	Transported by Phillips	Delivered to Phillips for neutralization stabilization and disposal
Flammable Liquids	Liquid	2 drums	loaded onto truck	Transported by Emerald/Sol Pro	Delivered to Emerald/Sol Pro for disposal

## VII Distribution

To: EPA Headquarters, Washington, D.C., Attention: Terry Eby  
EPA Region 10, Emergency Response Unit, Attention: Chris Field  
EPA Washington Operations Office, Attention: Thomas Eaton  
Puyallup Tribe of Indians, Tacoma, Attention: Joe Edgell  
Washington State Department of Ecology, Attention: Jim Sachet  
City of Tacoma Public Works Department, Attention: Michael Kennedy  
EPA Region 10 Web page, Attention: Beth Kunz  
EPA Region 10, Emergency Response Unit, Attention: OSCs

## VII Status

Case Pending